umbo	or: <u>/0/069,</u>		,	Systems Branch CRF Process Edited by: _	ling Dat : 11/6/200
		1-ASCII to ASCI	NTEDE	Verified by:	(STIC s
Chan	ged the margins in	cases where the	sequence text was	wrapped" down to the	e next line.
Edite	d a format error in	the Current Applic	ation Data section, s	pecifically:	
Edited applic	the Current Applant was the p	ication Data section of application da	on with the actual cunta; or	rent number. The nu	mber inputted by the
Adde	d the mandatory h	eading and subhe	adings for "Current A	pplication Data*.	
Edited	I the "Number of S	Sequences" field.	The applicant spelled	d out a number instea	d of using an integer.
Chan	ged the spelling o	a mandatory field	(the headings or sub	oheadings), specifical	ly:
Corre	cted the SEQ ID N	IO when obviously	incorrect. The sequ	ence numbers that w	ere edited were:
Insert	ed or corrected a	nucleic number at	the end of a nucleic I	ine. SEQ ID NO's ed	dited:
Correc applic	ant placed a resp	lacement. All response below the sul	oonses must be on the	ne same line as each oved to its appropriat	subheading. If the e place.
Inseri	ed colons after he	adings/subheadin	gs. Headings edited	included:	
Delet	ed extra, invalid, h	eadings used by a	an applicant, specifica	ally:	
Dele	ed: [] non-ASCI	I "garbage" at the bughout text;	beginning/end of files other invalid text, suc	s;  secretary initia	uls/filename at end of f
Inser	led mandatory he	adings, specifically	/:		
Corre	cted an obvious	error in the respon	se, specifically:		HIE!
Edite	d identifiers where	upper case is use	ed but lower case is r	equired, or vice versa	a.
Corre	cted an error in th	e Number of Sequ	uences field, specifica	ally:	
A "Ha	ırd Page Break" c	ode was inserted t	by the applicant. All of	occurrences had to be	e deleted.
Delete due to	d <i>ending</i> stop co a Patentin bug).	don in amino acid Sequences correc	sequences and adju-	sted the *(A)Length:*	field accordingly (erro
Othe	•	·			

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.





PCT10

RAW SEQUENCE LISTING DATE: 11/06/2002 PATENT APPLICATION: US/10/069,626 TIME: 18:25:51

Input Set : A:\PTO.AMC.txt

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3 <110> APPLICANT: Green et al.
      5 <120> TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
              Lymphocyte Activation Antigen B-7 Family and
              Polypeptides Encoded Thereby
      9 <130> FILE REFERENCE: 15966-562 NATL
     11 <140> CURRENT APPLICATION NUMBER: 10/069,626
C--> 12 <141> CURRENT FILING DATE: 2002-07-25
     14 <150> PRIOR APPLICATION NUMBER: PCT/US00/24220
     15 <151> PRIOR FILING DATE: 2000-08-31.
     17 <150> PRIOR APPLICATION NUMBER: 60/152383
     18 <151> PRIOR FILING DATE: 1999-09-03
     20 <150> PRIOR APPLICATION NUMBER: 60/172909
     21 <151> PRIOR FILING DATE: 1999-12-21
     23 <150> PRIOR APPLICATION NUMBER: 60/183578
     24 <151> PRIOR FILING DATE: 2000-02-18
     26 <150> PRIOR APPLICATION NUMBER: 09/651200
     27 <151> PRIOR FILING DATE: 2000-08-30
     29 <160> NUMBER OF SEQ ID NOS: 25
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    46
                                                                Met Ala
    47
    49 aac gag cag ggc ttg ttt gat gtg cac agc atc ctg cgg gtg gtg ctg
                                                                           164
    50 Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu Arg Val Val Leu
                                     10
    53 ggt gca aat ggc acc tac agc tgc ctg gtg cgc aac ccc gtg ctg cag
                                                                           212
    54 Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn Pro Val Leu Gln
    55
            20
                                 25
                                                     30
    57 cag gat gcg cac age tet gte ace ate aca cee cag aga age eee aca
                                                                           260
    58 Gln Asp Ala His Ser Ser Val Thr Ile Thr Pro Gln Arg Ser Pro Thr
                             40
                                                 45
    61 gga gcc gtg gag gtc cag gtc cct gag gac ccg gtg gtg gcc cta gtg
                                                                           308
    62 Gly Ala Val Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu Val
    63
                       55
                                            - 60
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Input Set : A:\PTO.AMC.txt

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		Ser	Leu		Gln	Leu	Asn	Leu		Trp	GIn	Leu	Thr		Thr	ràs	Gin	
	71			85					90					95				452
										cgg								452
		Leu		His	ser	Pne	Thr		GŢĀ	Arg	ASP	GIII		ser	Ald	Tyr	Ald	
	75 73		100			_+_	++~	105	~~~	a+ a	at a	~~~	110	~~~	22+	ac.	tac	500
	7/	aac	cgc	acg	gcc	CLC	Dho	Dro	yac	ctg Leu	LOU	y Ca	Cln	Glw	Acn	λla	Sor	300
		115	AIG	1111	Ala	ьeu	120	PIO	ASP	теп	neu	125	GIH	GLY	un.	niu	130	
			200	ata	a a a	cac		cat	αtα	gcg	σac		aac	agc	ttc	acc		548
										Ala								
	83	ьеu	AIG	пец	GIII	135	vai	nrg	var	nra	140	Q1u	011	001	1	145	010	
		ttc	ata	аσс	atc		σat.	ttc	aac	agc		acc	atc	age	cta		ata	596
	86	Phe	Val	Ser	Tle	Ara	Asp	Phe	Glv	Ser	Ala	Ala	Val	Ser	Leu	Gln	Val	
	87				150	<u>J</u>			1	155					160			
		acc.	act	ccc		tog.	aag	ccc	agc.	atg	acc	ctg.	gag	ccc	aac	aag	gac:	644
										Met								
	91			165	-		_		170					175				
	93	ctg	cgg	cca	ggg	gac	acg	gtg	acc.	atc	acg	tgc	tcc	agc	tac	cgg	ggc	692
	94	Leu	Arg	${\tt Pro}$	Gly	Asp	Thr	Val	Thr	Ile	Thr	Cys	Ser	Ser	$\mathtt{Tyr}$	Arg	Gly	
	95		180					185					190					
										cag								7.40
		_	Pro	Glu	Ala	Glu		Phe	Trp	Gln.	Asp		Gln	Gly	Val	Pro		
		195					200					205					210	700
	101	act	ggo	aac	gtg	acc	acq	y tog	cag	atg	gcc	aac	gag	cag	gge	ctt	g ttt	788
			Gly	Ası	n Val			s Sei	GIr	n Met			ı Gil	ı Gli	1 GT		u Phe	
	103					215					220			4		22		026
																	c tac	836
		_	va_	LHIS			. ье	r Arc	ya.	235		т ст7	ALC	i ASI	24(		r Tyr	
	107			a t	230				ato			r cac	r mat			_	c tct	884
•	1 1 A	ayo	cy.	TO	, Val	N rea	aat Ner	Dro	. Val	Len	, cay	, cae	, yaı	- 905	, cu	- 99'	y Ser	004
	$110 \\ 111$		. Суз	245		. Aly	, ASI	1 110	250		. 011	. 011	1 215	255			, 501	
			. acc			ασο	cac	r cct			tto	2 000	e eca			c ct	g tgg	932
																	u Trp	
	115		260			1		265					270				-	
					a dad	cto	: tct	gto	: tgt	cto	att	gea	cto	ctg	gt	g gc	c ctg	980
,	118	Val	Thi	va]	LGly	Leu	Sei	. Val	. Cys	Leu	ı Ile	Àla	Let	Let	ı Va	L Ala	a Leu	
		275			•		280					285					290	
	121	get	tto	gtg	tgc	: tgg	aga	a aag	ato	aaa	e cag	ago	: tgt	gag	gag	g. ga	g aat	1028
	122	Ala	Phe	va]	l Cys	Trp	Arg	J Lys	: Ile	. Lys	Glr	ı Ser	Cys	Glu	ı Glı	ı Gl	u Asn	
	123					295					300					30.		
	125	gca	gga	a gco	gag	gac	cag	g gat	ggg	g gag	gga	a gaa	ggc	tcc	aaq	gac	a gcc	1076
			Gl	, Ala			Glr	n Asp	Gl3			, Glu	ı Gly	Sei			r Ala	
	127				310					315					320			
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Input Set : A:\PTO.AMC.txt

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                                                                     1180
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134 Ile Ala
135
        340
137 tqqctqcaat qqqqctqcac tqtqaqccct gccccaaca gatgcatcct gctctgacag 1240
139 qtqqqctcct tctccaaaqq atqcqataca cagaccactq tqcaqcctta tttctccaat 1300
141 ggacatgatt cocaagtcat cotgotgoot tttttcttat agacacaatg aacagaccac 1360
143 ccacaacett agttetetaa gteateetge etgetgeett attteacagt acatat 1420
145 cttagggaca cagtacactg accacatcac caccetette ttecagtget gegtggacca 1480
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149 ttcaccaaaq acacqatqca taqtcacccc qqccttqttt ctccaatqqc cqtgatacac 1600
151 tagtgateat gtteageect getteeacet geatagaate ttttettete agacagggae 1660
153 agtgeggeet caacatetee tggagtetag aagetgttte ettteeeete etteeteete 1720
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157 gegeecacea catgeacage tqtqcatgga qacetqcagg tqcacqtqct qqaacacqtg 1840
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161 ggaagcatgt getggteaca etggttetee aggggtetgt gatggggeee etgggggtea 1960
163 gettetgtee etetgeette teacetetti giteettiet itteatgtat ceatteagit 2020
165 gatgtttatt gagcaactac agatgtcaqc actgtgttag gtgctggggg ccctgcgtgg 2080
167 gaagataaag ttoctooto aaggactooc catooagotg ggagacagac aactaactac 2140
169 actgeaccet geggtttgea gggggeteet geetggetee etgeteeaea eeteetetgt 2200
171 ggctcaaggc ttcctggata cctcaccccc atcccaccca taattcttac ccagagcatg 2260
173 gggttggggc ggaaacctgg agagagggac atagcccctc gccacggcta gagaatctgg 2320
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181 ttcctggctt gcctctggcc agctcccggc ctctggtaga gtgagacttc agacgttctg 2560
183 atgeetteeg gatgteatet etecetgeee eaggaatgga agatgtgagg aettetaatt 2620
185 taaatgtggg actcggaggg attttgtaaa ctgggggtat attttgggga aaataaatgt 2680
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202 Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Pro Gln Arg Ser
            35
205 Pro Thr Gly Ala Val Glu Val Gln Val Pro Glu Asp. Pro Val Val Ala
                            55
208 Leu Val Gly Thr Asp Ala Thr Leu His Cys Ser Phe Ser Pro Glu Pro
209 65
                        70
                                            75
211 Gly Phe Ser Leu Thr Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr
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214 Lys Gln Leu Val His Ser Phe Thr Glu Gly Arg Asp Gln Gly Ser Ala
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Input Set : A:\PTO.AMC.txt

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215
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217 Tyr Ala Asn Arg Thr Ala Leu Phe Pro Asp Leu Leu Ala Gln Gly Asn
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                                 120
220 Ala Ser Leu Arg Leu Gln Arg Val Arg Val Ala Asp Glu Gly Ser Phe
                             135
223 Thr Cys Phe Val Ser Ile Arg Asp Phe Gly Ser Ala Ala Val Ser Leu
                        150
                                             155
226 Gln Val Ala Ala Pro Tyr Ser Lys Pro Ser Met Thr Leu Glu Pro Asn
                    165
                                         170
229 Lys Asp Leu Arg Pro Gly Asp Thr Val Thr Ile Thr Cys Ser Ser Tyr
                180
                                     185
                                                         190
232 Arg Gly Tyr Pro Glu Ala Glu Val Phe Trp Gln Asp Gly Gln Gly Val
            195
                                 200
                                                     205
235 Pro Leu Thr Gly Asn Val Thr Thr Ser Gln Met Ala Asn Glu Gln Gly
                             215
                                                 220
        210
238 Leu Phe Asp Val His Ser Val Leu Arg Val Val Leu Gly Ala Asn Gly
239 225
                        230
                                             235
241 Thr Tyr Ser Cys Leu Val Arg Asn Pro Val Leu Gln Gln Asp Ala His
                    245
                                         250
244 Gly Ser Val Thr Ile Thr Gly Gln Pro Met Thr Phe Pro Pro Glu Ala
                260
                                     265
                                                         270
247 Leu Trp Val Thr Val Gly Leu Ser Val Cys Leu Ile Ala Leu Leu Val
                                 280
250 Ala Leu Ala Phe Val Cys Trp Arg Lys Ile Lys Gln Ser Cys Glu Glu
                            295
                                                 300
253 Glu Asn Ala Gly Ala Glu Asp Gln Asp Gly Glu Gly Glu Gly Ser Lys
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                                             315
256 Thr Ala Leu Gln Pro Leu Lys His Ser Asp Ser Lys Glu Asp Asp Gly
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259 Gln Glu Ile Ala
260
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277 geg egt geg tyt age gga ega ggg eag ett eac etg ett egt gag eat.
278 Ala Arg Ala Cys Ser Gly Arg Gly Gln Leu His Leu Leu Arg Glu His
                 20
                                     25
281 ccg gga ttt cgg cag cgc tgc cgt cag cct gca ggt ggc cgc tcc cta
                                                                       145
282 Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala Gly Gly Arg Ser Leu
283
             35
                                 40
285 ctc gaa gcc cag cat gac cct gga gcc caa caa gga cct gcg gcc agg
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RAW SEQUENCE LISTING

DATE: 11/06/2002 TIME: 18:25:51

PATENT APPLICATION: US/10/069,626

Input Set : A:\PTO.AMC.txt

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289	gga	cac	ggt	gtg	acc	atc	acg	tgc	tcc	agc	tac	cag	ggc	tac	cct	gag	241
290	Gly	His	Gly	Val	Thr		Thr	Cys	Ser	Ser		Gln	GLY	Tyr.	Pro		
291	65					70					75					80	200
293	gct	gag	gtg	ttc	tgg -	cag	gat	ggg	cag	ggt	gtg	CCC	CLG	act	gge	aac :	289
	Åla	GLu	Val	Phe		GIn	Asp	GIA	GIN		Val	PIO	Leu	TIIT	95	ASII	
295					85	- + <del>-</del>	~~~	~~~	~n~	90	aaa	++~	+++	ora ř		<b>C</b> aC	337
297	gtg Val	acc	acg	cor	Cla	Mot	γcc	A a n	Glu	Gln	Glv	T.eu	Phe	Asp	Val	His	33,
290	vai	TIIT	1111	100	GIII	мес	AIU	LOII	105	0111	011	Deu	10	110			
2 <i>33</i>	agc	atc	cta		ata	at: <b>a</b>	cta	aat		aat	aac	acc	tac	agc	tgc	ctg	3.85
302	Ser	Tle	Leu	Ara	Val	Val	Leu	Gly	Ala	Asn	Gly	Thr	Tyr	Ser	Cys	Leu	
303	001		115	5				120			-		125				
	ata	cqc	aac	ccc	gtg.	ctg	cag	cag	gat	gcg	cac	agc	tct	gtc	acc	atc	433
306	Val	Arg	Asn	Pro	Val	Leu	Gln	Gln	Asp	Ala	His	Ser	Ser	Val	Thr	Ile	
307		130					135					140					
309	aca	CCC	cag	aga	agc	CCC	aca.	gga	gcc	gtg	gag	gtc	cag	gtc	cct.	gag	481
310	Thr	Pro	Gln	Arg	Ser		Thr	Gly	Ala	Val		Val	Gln	Val	Pro		
	1.4.5					1.50.					15.5.					1.6.0	E20
313	gac	ccg.	gtg	gtg	gcc	cta	gtg.	ggc	acc	gat	gcc	acc:	ctg	cac	tge	tcc	529
	Āsp	Pro	Val	Val		Leu	var	GLY	Thr	170	Ala	Thr	теп	HIS	175	Ser.	
315	ttc				165	~~~	++-	200	ata		020	ata	220	ctc		taa	577
31/	Phe	Com	CCC	gag	Dro	GJ v	Dha	Cor	LOI	Thr	Cln	Leu	Agn	Len	Tie	Trp	377
319	Pne	Ser	PIO	180	PIO	GLY.	FILE	361	185	1111	GIII	DCu		190		F	
	cag	cta	aca		acc	aaa	caσ	cta		cac	agt	ttc	acc	qaa	ggc	cgg	625
322	Gln	Leu	Thr	Asp	Thr	Lvs	Gln	Leu	Val	His	Ser	Phe	Thr	Ğlu	Gly	Arg	
323	02		195					200					205				
325	gac	cag	ggc	agc	gcc	tat	gcc	aac	cgc	acg	gcc	ctc	ttc	ccg	gac	ctg	673
326	Āsp	Gln	Gly	Ser	Ala	Tyr	Ala	Asn	Arg	Thr	Ala	Leu	Phe	Pro	Asp	Leu	
327		210					215					220					
329	ctg	gca	caa	ggc	aat	gca	tcc	ctg	agg	ctg	cag	cgc	gtg	cgt	gtg	gcg	721
	Leu	Ala	Gln	Gly	Asn		Ser	Leu	Arg	Leu		Arg	Val	Arg	vaı		
	225					230					235		~~ +	++0	~~~	240	769
333	gac	gag	ggc	agc	TTC	acc	tgc	Dho	grg	agc	TIO	۸ra	yar.	Dhe	G1v	Sor	703
	Asp	GLu	GTA	ser.	245	THE	Cys	PHE	Val	250	116	Alg	ASP.	FILE	255	DCI	
335	gct	~~~	at a	200		car	ata	acc	act		tac	tca	ааσ	ccc		atσ	817
337	Ala	Δla	Val	Ser	Len	Gln	Val	Ala	Ala	Pro	Tvr	Ser	Lys	Pro	Ser	Met	
339	AIU	AIu	VUI	260	пси	01	,		265		-1-			270			
	acc	cta	σασ		aac	aaq	qac	ctg		cca	ggg	gac	acg	gtg	acc	atc	865
342	Thr	Leu	Glu	Pro	Asn	Lys	Asp	Leu	Arg	Pro	Gly	Asp	Thr	Val	Thr	Ile	
343			275					280					285				
345	acg	tgc	tcc	agc	tac	cgg	ggc	tac	cct	gag	gct	gag	gtg	ttc	tgg	cag	913
346	Thr	Cys	Ser	Ser	Tyr	Arg		$\mathtt{Tyr}$	Pro	Glu	Ala		Val	Phe	Trp	Gln	
347		290					295				_	300					061
349	gat	ggg	cag	ggt	gtg	ccc	ctg	act	ggc	aac	gtg	acc	acg	tcg	cag	atg	961
350	Asp	Gly	Gln	Gly	Val	Pro	Leu	Thr	Gly	Asn	Val	Thr	Thr	ser	GIn	met	

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11062002\J069626.raw

## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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VERIFICATION SUMMARY

DATE: 11/06/2002

PATENT APPLICATION: US/10/069,626

TIME: 18:25:52

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Output Set: N:\CRF4\11062002\J069626.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date